ABSTRACT OF THE DISCLOSURE

A low-scatter polarization-preserving multilayer viewing screen. A substrate D, preferably a volume diffuser, for increasing the divergence of information-coded-light while preserving its polarization sense A as it passes therethrough has a discrimination of at least 2:1 within a viewing zone. An absorbing polarizer on one or both sides of D and aligned to pass polarization state A. In one embodiment, there is provided a polarization-state phase-shift layer for modifying the polarization state of forward-scatter and/or back-scatter that total internally reflects within the viewing screen into the state opposite of A. The phase-shift layer being located at any position between the polarizer and an outermost surface of the viewing screen through which said information-coded light passes.

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